

respectively, are also included. In this example, an organic EL device is used as the display unit **29** instead of a liquid crystal display device and the touch-sensitive sheet member **180** is provided on the upper portion of the display unit **29**.

[0396] In this example, the display device **529** includes a film portion **29i** for the organic EL wiring. As the film portion **29i**, an insulated and transparent polyimide based film member is used. The wiring pattern group **58** for organic EL device is provided on the surface side of the film portion **29i**. The display unit **29** having the organic EL device is bonded on the upper portion of the film portion **29i** by an adhesive agent or the like. The display unit **29** includes the sealing layer **29a**, the self-light-emitting organic material **29b**, the intermediate layer film **29c** and a sealing panel **29d1**. The sealing layer **29a** has a frame shape shown in FIG. **38** and is provided on the intermediate layer film **29c**, which enables the self-light-emitting organic material **29b** to be sealed up. The sealing panel **29d1** is arranged on the upper portion of the sealing layer **29a** and the self-light-emitting organic material **29b**. The touch-sensitive sheet member **180** is provided on the upper portion of the sealing panel **29d1**.

[0397] In this example, the touch-sensitive sheet member **180** includes the base film **181** shown in FIG. **45**, the electrically conductive rubber **182**, the electrode pattern **185** and the base panel **186**. The electrically conductive rubber **182**, the electrode pattern **185** and the base panel **186** are layered on the base film **181**. The wiring pattern group **57** is arranged on the front surface side of the base film **181**. The electrically conductive rubber **182** is bonded on the upper portion of the base film **181** by an adhesive agent or the like. As the electrically conductive rubber **182**, a sheet shaped polymer material (artificial muscle) having transparency and electric conductivity is used.

[0398] In this example, the electrodes **52** shown in FIG. **45** are arranged at the positions each corresponding to the individual operation key image on the bottom surface side of the electrically conductive rubber **182**. The plurality of electrodes **52** are connected to the wiring pattern group **57**, respectively. The electrode pattern **185** is arranged on the upper portion of the electrically conductive rubber **182** and is concurrently used by the touch-sensitive sheet member **180** and the display unit **29**. The base panel **186** is provided on the upper portion of the electrode pattern **185**. The driving voltage is applied to each pixel of the self-light-emitting organic material **29b** via the wiring pattern group **58** of the bottom side of the above-mentioned intermediate layer film **29c** and the electrode pattern **185**.

[0399] The above-mentioned wiring pattern groups **57**, **58** together with the electrode pattern **185** of the display unit **29** are connected to the driving power supply **55A**, not shown, which applies the DC driving voltage to the electrode **52** and the electrode pattern **185** which is concurrently used by the organic EL device, for every individual operation key. At that time, the DC driving voltage may be applied with the voltage-level thereof being changed. In this manner, the display device **529** that is applicable to the input device **800** is configured. With respect to the other members and functions, the members similar to those of the display device **129** are used and the functions similar to those of the display device **129** are included, so that the explanation thereof will be omitted.

[0400] The display device **529** thus configured having the touch-sensitive sheet member **180** on the display unit **29** may present the input operation accompanied with the concave and convex feeling when the icon images or the like displayed

on the display unit **29** are touched with the operator's finger and the finger slides on the upper portion of the electrically conductive rubber **182** under the display screen if the wiring pattern group **58** is provided without concurrently using the wiring pattern group **57**, even if the display surface is observed to be a flat shape. Thus, it becomes possible to provide the input device **800** with the programmable touch-sensitive input sheet for icon touch.

[0401] The following will describe a modification example (No. 5) of the display device in the input device **800**. FIG. **46** shows a configuration of a display device **629** with a touch-sensitive variable sheet function, which is applicable to the input device **800**. The display device **629** shown in FIG. **46** includes the display unit **29** and the transparent touch-sensitive sheet member **180** on the display unit **29**. The electrode pattern **29e**, which is concurrently used by the touch-sensitive sheet member **180** and the display unit **29**, and the wiring pattern groups **57**, **58**, which are arranged respectively, are also included. In this example, a liquid crystal display device is used as the display unit **29** instead of an organic EL device.

[0402] In this example, the display unit **29** includes a film portion **29j** for the liquid crystal wiring on the upper portion of the back light **29g** shown in FIG. **46**. As the film portion **29j**, an insulated and transparent polyimide based film member is used. The wiring pattern group **58** for the liquid crystal display device is provided on a front surface side of the film portion **29j**.

[0403] The display unit **29** having the liquid crystal display device is bonded on the upper portion of the film portion **29j** for the wiring by an adhesive agent or the like. The display unit **29** includes the sealing layer **29a**, the intermediate layer film **29c**, the sealing panel **29d1** and the liquid crystal material **29f**. The sealing layer **29a** has a frame shape shown in FIG. **38** and is provided on the intermediate layer film **29c**, which enables the liquid crystal material **29f** to be sealed up. The sealing panel **29d1** is bonded on the upper portion of the sealing layer **29a** and the liquid crystal material **29f** by an adhesive agent or the like. The touch-sensitive sheet member **180** is provided on the upper portion of the sealing panel **29d1**.

[0404] In this example, the touch-sensitive sheet member **180** includes the base film **181** shown in FIG. **46**, the electrically conductive rubber **182**, the electrode pattern **185** and the base panel **186**. The electrically conductive rubber **182**, the electrode pattern **185** and the base panel **186** are layered on the base film **181**. The wiring pattern group **57** is arranged on the front surface side of the base film **181**. The electrically conductive rubber **182** is bonded on the upper portion of the base film **181** by an adhesive agent or the like. As the electrically conductive rubber **182**, a sheet shaped polymer material (artificial muscle) having transparency and electric conductivity is used.

[0405] In this example, the electrodes **52** shown in FIG. **46** are arranged at the positions each corresponding to the individual operation key image on the bottom surface side of the electrically conductive rubber **182**. The plurality of electrodes **52** are connected to the wiring pattern group **57**, respectively. The electrode pattern **185** is arranged on the upper portion of the electrically conductive rubber **182** and is concurrently used by the touch-sensitive sheet member **180** and the display unit **29**. The base panel **186** is provided on the upper portion of the electrode pattern **185**. The driving voltage is applied to each pixel of the liquid crystal material **29f**